

October 8, 2002

Mr. Amir Afzali  
PRA Supervisor  
Diablo Canyon Power Plant  
12 Miles North of Avila beach  
Avila Beach, CA 93424

Dear Mr. Afzali:

Per your request, enclosed is a compact disk containing the Level 1, Revision 3 Standardized Plant Analysis Risk (SPAR) model for Diablo Canyon 1 & 2 and the SAPHIRE 6.75 suite of probabilistic risk assessment (PRA) computer codes. Also enclosed is a copy of the user's manual for the Diablo Canyon 1 & 2 SPAR model. The SAPHIRE code suite is required to perform analyses with the Revision 3 SPAR model. Both of these software packages are in the form of executable files that can be run directly from the compact disk. These items are for your organization's use only and are not to be distributed further without the consent of the NRC. Also please note that the information contained in the SPAR model is considered sensitive and should be treated accordingly.

The Revision 3 SPAR model for Diablo Canyon 1 & 2 has been reviewed and benchmarked against your PRA model for the plant. Subsequent to this review and benchmarking, the SPAR model: (1) was revised to address comments and issues identified during the review, (2) now yields results which are in reasonable agreement with those produced by your PRA model, and (3) has no associated outstanding modeling issues. For these reasons, we are certifying that the Diablo Canyon 1 & 2 SPAR model meets all Revision 3 SPAR model quality assurance (QA) criteria and is therefore acceptable for unrestricted use by your staff analysts.

Questions about the model should be directed to Mr. Robert Buell of the Idaho National Engineering and Environmental Laboratory (INEEL) at (208) 526-9400 (rbuel@inel.gov) . Questions about the SAPHIRE code suite should be directed to Mr. Ted Wood, INEEL, at (208) 526-8729 (stw@inel.gov). Comments and suggestions may also be directed to either of these gentlemen or to Dr. Patrick O'Reilly, NRC project manager for SPAR model development, at (301) 415-7570 (pdo@nrc.gov).

If you are interested in receiving on-going technical support for SAPHIRE, you are invited to join the SAPHIRE Users' Group. Mr. John Schroeder, INEEL, at (208) 526-8755 (roe@inel.gov) can provide more details about the group and the services offered.

Due to the potential sensitivity of the information contained in the Enclosures, they are not publicly available.

Sincerely,

*Original Signed By*

Scott F. Newberry, Director  
Division of Risk Analysis and Applications  
Office of Nuclear Regulatory Research

Enclosures: As stated

cc: G. Shukla, NRR/PDIV-2

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<b>REMARKS</b>  Letter to Mr. Amir Afzali - Per your request, enclosed is a compact disk containing the Level 1, Revision 3i Standardized Plant Analysis Risk (SPAR) model for Diablo Canyon 1 & 2 and the SAPHIRE 6.75 suite of probabilistic risk assessment (PRA) computer codes. Also enclosed is a copy of the user's manual for the Diablo Canyon 1 & 2 SPAR model.						
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